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SUBJECT: EVALUATION OF MISSION GT 234-65

1. CAMERAS NUMBERED 1 (MASTER) AND 2 (SLAVE) IN A DELTA III CONFIGURATION WERE USED ON MISSION GT-234-65 (RED DOT HI-C TEST 24-5-2-6). PROCESSING WAS ACCOMPLISHED BY [] EXCEPT FOR SMALL SECTIONS ON THE LAST PART OF BOTH FWD AND AFT MATERIAL WHICH WAS PROCESSED AT [] THE PURPOSE OF THE TEST WAS TO DETERMINE THE FEASIBILITY AND VALUE OF USING SO-121 COLOR MATERIAL IN BOTH THE FWD AND AFT LOOKING CAMERAS.

2. THE ORIGINAL MATERIAL WAS NOT RECEIVED. THIS EVALUATION IS BASED ON THE FOLLOWING REPRODUCTIONS:

A. FRAMES 65-139 FWD, 2ND GENERATION COLOR DUPLICATE POSITIVE, LOW CONTRAST, ON FLASHED SO-121.

B. FRAMES 66-140 AFT, SAME AS A.

C. FRAMES 65-139 FWD, 2ND GENERATION COLOR DUPLICATE POSITIVE, LOW CONTRAST, ON SO-271 WITH PROCESSING MODIFIED TO LOWER CONTRAST

D. FRAMES 66-140 AFT, SAME AS C.

3. THE MATERIAL REPRODUCED ON SO-121 SHOWED EVIDENCE OF EXPOSURE TO EXTRANEIOUS RED LIGHT ALONG THE NON-TITLED EDGE OF THE FWD MATERIAL AND THE TITLED EDGE OF THE AFT MATERIAL. THIS FOGGED AREA CANNOT BE DETECTED ON THE SO-271 REPRODUCTIONS AND PROBABLY

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OCCURRED DURING THE FLASHING OF THE SO-121 REPRODUCTIONS. THE FOGGING DOES NOT EFFECT THE FORMAT. THE SO-121 MATERIAL IS MORE SUSCEPTIBLE TO SURFACE SCRATCHING. NUMEROUS FINE SCRATCHES CAN BE DETECTED ON THE SO-121 MATERIAL THAT DO NOT APPEAR ON THE SO-271 (FRAMES 87 AND 88). A REPAIRED TEAR IS NOTED BETWEEN BRAMES 88/89 (ON BOTH REPRODUCTIONS).

4. HIGH CONTRAST IS ONE OF THE CHARACTERISTICS OF SO-121 AND NARROW LATITUDE ONE OF THE LIABILITIES. THE PORTION OF THIS MISSION RECEIVED FOR EVALUATION INDICATES THAT EXCESSIVE CONTRAST CAN BE A LIABILITY. THE SO-121 REPRODUCTIONS HAVE A HIGHER CONTRAST THAN DESIRED FOR PHOTOGRAPHIC INTERPRETATION. THE SO-271, ALTHOUGH CONSIDERED LOW CONTRAST, RECEIVED MODIFIED PROCESSING TO FURTHER REDUCE THE CONTRAST LEVEL TO PROVIDE ACCEPTABLE REPRODUCTIONS. THE MATERIAL IS ACCEPTABLE BUT NOT OPTIMUM IN COMPARISON TO REPRODUCTIONS OF PREVIOUS MISSIONS EMPLOYING THE SAME MATERIALS. (MISSIONS GT-148, GT-149, GT-183, GT-209).

5. A QUALIFIED ESTIMATE PLACES THE GROUND RESOLUTION BETWEEN [REDACTED] NO RESOLUTION TARGETS WERE RECORDED IN THE MATERIAL RECEIVED. 25X1

6. THE MAJOR DETRIMENT IS LONGITUDINAL STREAKS OF MINUS DENSITY THROUGHOUT THE FWD AND AFT MATERIAL. THESE STREAKS ARE PARALLEL TO THE EDGE OF THE FORMAT AND DO NOT EXTEND THROUGH THE METERING AREAS. THE CAUSE OF THESE STREAKS HAS BEEN ISOLATED TO THE CAMERA SYSTEM. DISCUSSIONS WITH PERSONNEL FROM [REDACTED] 25X1

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[REDACTED] INDICATE THAT THE STREAKS WERE INDUCED BY THE FILTER-PACK USED ON THIS MISSION. A POST-FLIGHT INSPECTION OF THE FILTER-PACK SHOWED THE FILTERS TO BE PHYSICALLY DAMAGED. IN ADDITION, NUMEROUS NEWTON RINGS COULD BE DETECTED AND CONDENSATION HAD CAUSED PORTIONS OF THE FILTERS TO MELD TOGETHER. THE COMBINATION OF THE PHYSICAL DAMAGE, CONDENSATION, NEWTON RINGS AND MELDING CAUSED AREAS OF HIGHER AND LOWER TRANSMISSION THROUGH THE FILTER PACK. THE NARROW LATITUDE OF THE SO-121 RECORDED THESE AS HIGHER AND LOWER DENSITIES AND THE MECHANICS OF THE SYSTEM PRODUCED THE LONGITUDINAL STREAKS.

7. ACTIVITIES UTILIZING GELATIN FILTERS SHOULD BE ALERTED OF THIS POTENTIAL HAZARD SO THEY MAY DISCARD THE FILTERS AS PART OF THE POST-FLIGHT SHUTDOWN PROCEDURE.

T O P S E C R E T

:END OF MESSAGE: